

INTERNATIONAL SEARCH REPORT

International Application No
PCT/FR 99/02569

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06K7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 681 111 A (SILVIAN SERGIU) 21 July 1987 (1987-07-21)	1,4,5, 7-11
Y	column 1, line 5-33; figures 6,13,14,17	6
A	column 3, line 41-66	9
	column 5, line 3-28	
	column 9, line 52 -column 10, line 23	
Y	EP 0 299 639 A (DAVID SYSTEMS INC) 18 January 1989 (1989-01-18)	6
	column 4, line 38-44; figure 1	
X	US 4 786 903 A (GRINDAHL MERVIN L ET AL) 22 November 1988 (1988-11-22)	1,8-10
	column 4, line 15 -column 5, line 21; figure 1	
	-/-	

☒ Further documents are listed in the continuation of box C.

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"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

3 April 2000

Date of mailing of the international search report

07/04/2000

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 699 066 A (VAN ZYL CLINTON AIDEN ET AL) 16 December 1997 (1997-12-16) column 1, line 49 -column 2, line 40; figures 1,2,8 column 3, line 63 -column 4, line 3 ---	1,2,8-10
Y	US 5 252 962 A (ELLWOOD DAVID ET AL) 12 October 1993 (1993-10-12) column 6, line 17-31; figures 2,3B ---	1,2,8-10
A	US 4 935 736 A (MEIERDIERCK CHARLES) 19 June 1990 (1990-06-19) column 8, line 41 -column 9, line 22; figures 2,4 column 13, line 10-31 ---	1
A	US 5 598 446 A (VAN DER TUIJN ROLAND M M H) 28 January 1997 (1997-01-28) column 2, line 58 -column 3, line 18; figure 3 -----	2

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FR 99/02569

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4681111 A	21-07-1987	EP 0216903 A JP 5066827 B JP 62502666 T WO 8605675 A	08-04-1987 22-09-1993 15-10-1987 09-10-1986
EP 0299639 A	18-01-1989	NONE	
US 4786903 A	22-11-1988	NONE	
US 5699066 A	16-12-1997	AT 171547 T AU 670402 B AU 1653095 A AU 656088 B AU 4494093 A CA 2104829 A CN 1088371 A,B DE 69321179 D DE 69321179 T EP 0585132 A ES 2121954 T JP 7311263 A SG 48262 A US 5557280 A ZA 9306267 A	15-10-1998 11-07-1996 29-06-1995 19-01-1995 03-03-1994 27-02-1994 22-06-1994 29-10-1998 06-05-1999 02-03-1994 16-12-1998 28-11-1995 17-04-1998 17-09-1996 14-04-1994
US 5252962 A	12-10-1993	AU 666062 B AU 5501294 A AU 660868 B AU 5501394 A AU 650891 B AU 8154691 A CA 2048385 A,C CA 2189461 A CA 2189462 A CH 682782 A DE 4125746 A DE 4143560 C DE 4143561 C FR 2667206 A GB 2249001 A,B GB 2258588 A,B GB 2258589 A,B IT 1258003 B JP 2747985 B JP 7294636 A JP 2747986 B JP 7294637 A JP 2709758 B JP 4232886 A NL 9101344 A NZ 239190 A NZ 248087 A NZ 248088 A US 5481262 A US 5422636 A	25-01-1996 21-04-1994 06-07-1995 28-04-1994 07-07-1994 06-02-1992 04-02-1992 04-02-1992 04-02-1992 15-11-1993 06-02-1992 15-01-1998 29-01-1998 27-03-1992 22-04-1992 10-02-1993 10-02-1993 19-02-1996 06-05-1998 10-11-1995 06-05-1998 10-11-1995 04-02-1998 21-08-1992 02-03-1992 25-11-1994 25-11-1994 25-11-1994 02-01-1996 06-06-1995
US 4935736 A	19-06-1990	US 5029271 A	02-07-1991

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5598446 A	28-01-1997	NONE	